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haust gases from said engine to simultaneously enter all of the ribs of one of said series and thereafter to enter all of the ribs of an adjacent series, whereby to heat the walls of said passages to convert said fuel into vapors, said baffles causing one part of the vapors to traverse one of said paths and a second part to traverse the second of said paths, a mixing chamber to which the vapors thus produced are conducted and means for introducing air into said last named chamber to provide a fuel mixture having the proper proportions of each component.

5. A device of the character described including a casing, a vaporizing chamber in said casing 15 which is connected to the intake manifold of a combustion engine and into which a liquid fuel is introduced, a cover plate for said vaporizing chamber, an inlet chamber at one side of said vaporizing chamber into which exhaust gases 20 from said engine are introduced, an outlet chamber at the opposite side of said vaporizing chamber into which said exhaust gases are discharged, a plurality of substantially parallel series of ribs which are formed to provide cells, the ribs of each series being spaced from one another and

from the ribs of an adjacent series to provide main and branch passages, the cells of one of said series of ribs communicating directly with said inlet chamber while the cells of the other of said series of ribs communicate directly with 5 said outlet chamber, a connecting chamber with which the cells of both of said series of ribs communicate, whereby said exhaust gases are caused to flow first through the cells of one of said series of ribs and then through the cells of a second 10 series of said said ribs to heat the walls of said passages, said inlet chamber, outlet chamber and connecting chamber providing a path for the exhaust gases which extends transversely with respect to said series of ribs, baffles carried by said 15 cover plate, said baffles being supported in said passages and providing two tortuous paths, said baffles causing one part of the vapors which are produced to traverse one of said paths and a second part to traverse the other of said paths, a 20 mixing chamber to which said vapors are conducted and means for introducing air into said last named chamber to provide a fuel mixture having the proper proportions of each component. IVOR B. NEWBERY.